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☐ 1. Document ID: US 6653517 B2

L14: Entry 1 of 1

File: USPT

Nov 25, 2003

US-PAT-NO: 6653517

DOCUMENT-IDENTIFIER: US 6653517 B2

TITLE: Hydrocarbon conversion apparatus and method

DATE-ISSUED: November 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bullock; Billy P	Jonesville	LA	71343-0082	

US-CL-CURRENT: 585/241; 585/240, 585/242

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 1. Document ID: US 6910536 B2

L15: Entry 1 of 78

File: USPT

Jun 28, 2005

US-PAT-NO: 6910536

DOCUMENT-IDENTIFIER: US 6910536 B2

TITLE: In situ thermal processing of a hydrocarbon containing formation using a natural distributed combustor

DATE-ISSUED: June 28, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wellington; Scott Lee	Belliare	TX		
Vinegar; Harold J.	Houston	TX		
de Rouffignac; Eric Pierre	Houston	TX		
Karanikas; John Michael	Houston	TX		
Berchenko; Ilya Emil	Friendswood	TX		
Maher; Kevin Albert	Bellaire	TX		
Shahin, Jr.; Gordon Thomas	Bellaire	TX		
Menotti; James Louis	Dickinson	TX		
Coles; John Matthew	Katy	TX		

US-CL-CURRENT: 166/257; 166/302

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Dg
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☐ 2. Document ID: US 6902004 B2

L15: Entry 2 of 78

File: USPT

Jun 7, 2005

US-PAT-NO: 6902004

DOCUMENT-IDENTIFIER: US 6902004 B2

TITLE: In situ thermal processing of a hydrocarbon containing formation using a movable heating element

DATE-ISSUED: June 7, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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de Rouffignac; Eric Pierre	Houston	TX
Vinegar; Harold J.	Houston	TX
Wellington; Scott Lee	Belliare	TX
Shahin, Jr.; Gordon Thomas	Bellaire	TX
Berchenko; Ilya Emil	Friendswood	TX
Stegemeier; George Leo	Houston	TX
Zhang; Etuan	Houston	TX
Fowler; Thomas David	Katy	TX
Ryan; Robert Charles	Houston	TX

US-CL-CURRENT: 166/302; 166/248, 166/381, 166/57, 166/60, 392/306

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMOC	Draw D
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☐ 3. Document ID: US 6902003 B2

L15: Entry 3 of 78

File: USPT

Jun 7, 2005

US-PAT-NO: 6902003

DOCUMENT-IDENTIFIER: US 6902003 B2

TITLE: In situ thermal processing of a hydrocarbon containing formation having a selected total organic carbon content

DATE-ISSUED: June 7, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Maher; Kevin Albert	Bellaire	TX		
Vinegar; Harold J.	Houston	TX		
Wellington; Scott Lee	Belliare	TX		
de Rouffignac; Eric Pierre	Houston	TX		
Shahin, Jr.; Gordon Thomas	Bellaire	TX		
Berchenko; Ilya Emil	Friendswood	TX		
Stegemeier; George Leo	Houston	TX		
Zhang; Etuan	Houston	TX		
Fowler; Thomas David	Katy	TX		
Ryan; Robert Charles	Houston	TX		

US-CL-CURRENT: 166/302; 166/261, 166/272.1

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMOC	Draw D
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☐ 4. Document ID: US 6896783 B2

L15: Entry 4 of 78

File: USPT

May 24, 2005

US-PAT-NO: 6896783

DOCUMENT-IDENTIFIER: US 6896783 B2

TITLE: Method for producing material libraries by means of electrochemical deposition

DATE-ISSUED: May 24, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schunk; Stephan A.	Heidelberg			DE
Demuth; Dirk	Mannheim			DE
Hibst; Hartmut	Schriesheim			DE

US-CL-CURRENT: 205/81; 205/104, 205/128, 205/151, 205/98, 436/147, 436/159, 436/37

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw
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☐ 5. Document ID: US 6896053 B2

L15: Entry 5 of 78

File: USPT

May 24, 2005

US-PAT-NO: 6896053

DOCUMENT-IDENTIFIER: US 6896053 B2

TITLE: In situ thermal processing of a hydrocarbon containing formation using repeating triangular patterns of heat sources

DATE-ISSUED: May 24, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Berchenko; Ilya Emil	Friendswood	TX		
Vinegar; Harold J.	Houston	TX		
Wellington; Scott Lee	Belliare	TX		
de Rouffignac; Eric Pierre	Houston	TX		
Karanikas; John Michael	Houston	TX		
Stegemeier; George Leo	Houston	TX		
Fowler; Thomas David	Katy	TX		
Ryan; Robert Charles	Houston	TX		

US-CL-CURRENT: 166/245; 166/257, 166/267, 166/272.1, 166/272.2, 166/302, 166/308.1

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw
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☐ 6. Document ID: US 6889769 B2

L15: Entry 6 of 78

File: USPT

May 10, 2005

US-PAT-NO: 6889769

DOCUMENT-IDENTIFIER: US 6889769 B2

TITLE: In situ thermal processing of a hydrocarbon containing formation with a

selected moisture content

DATE-ISSUED: May 10, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wellington; Scott Lee	Belliare	TX		
Vinegar; Harold J.	Houston	TX		
de Rouffignac; Eric Pierre	Houston	TX		
Berchenko; Ilya Emil	Friendswood	TX		
Stegemeier; George Leo	Houston	TX		
Maher; Kevin Albert	Bellaire	TX		
Zhang; Etuan	Houston	TX		
Shahin, Jr.; Gordon Thomas	Bellaire	TX		
Fowler; Thomas David	Katy	TX		
Ryan; Robert Charles	Houston	TX		

US-CL-CURRENT: 166/302

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 7. Document ID: US 6880635 B2

L15: Entry 7 of 78

File: USPT

Apr 19, 2005

US-PAT-NO: 6880635

DOCUMENT-IDENTIFIER: US 6880635 B2

TITLE: In situ production of synthesis gas from a coal formation, the synthesis gas having a selected H2 to CO ratio

DATE-ISSUED: April 19, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Vinegar; Harold J.	Houston	TX		
Wellington; Scott Lee	Belliare	TX		
Berchenko; Ilya Emil	Friendswood	TX		
Van Hardeveld; Robert Martijn	Amsterdam			NL

US-CL-CURRENT: 166/259, 166/250.15, 166/261, 166/267, 166/302, 208/108, 208/134, 48/127.3, 48/DIG.6, 518/703, 518/704

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 8. Document ID: US 6880633 B2

L15: Entry 8 of 78

File: USPT

Apr 19, 2005

US-PAT-NO: 6880633

DOCUMENT-IDENTIFIER: US 6880633 B2

TITLE: In situ thermal processing of an oil shale formation to produce a desired product

DATE-ISSUED: April 19, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wellington; Scott Lee	Bellaire	TX		
Berchenko; Ilya Emil	Friendswood	TX		
de Rouffignac; Eric Pierre	Houston	TX		
Fowler; Thomas David	Houston	TX		
Ryan; Robert Charles	Houston	TX		
Shahin, Jr.; Gordon Thomas	Bellaire	TX		
Stegemeier; George Leo	Houston	TX		
Vinegar; Harold J.	Houston	TX		
Zhang; Etuan	Houston	TX		

US-CL-CURRENT: 166/245; 166/250.01, 166/257, 166/267, 166/272.1, 166/302, 585/1

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 9. Document ID: US 6877555 B2

L15: Entry 9 of 78

File: USPT

Apr 12, 2005

US-PAT-NO: 6877555

DOCUMENT-IDENTIFIER: US 6877555 B2

TITLE: In situ thermal processing of an oil shale formation while inhibiting coking

DATE-ISSUED: April 12, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Karanikas; John Michael	Houston	TX		
de Rouffignac; Eric Pierre	Houston	TX		
Vinegar; Harold J.	Houston	TX		
Wellington; Scott Lee	Bellaire	TX		

US-CL-CURRENT: 166/245; 166/272.1, 166/272.7, 166/302, 166/303

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 10. Document ID: US 6877554 B2

L15: Entry 10 of 78

File: USPT

Apr 12, 2005

US-PAT-NO: 6877554

DOCUMENT-IDENTIFIER: US 6877554 B2

TITLE: In situ thermal processing of a hydrocarbon containing formation using pressure and/or temperature control

DATE-ISSUED: April 12, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Stegemeier; George Leo	Houston	TX		
Vinegar; Harold J.	Houston	TX		
Wellington; Scott Lee	Belliare	TX		
de Rouffignac; Eric Pierre	Houston	TX		
Shahin, Jr.; Gordon Thomas	Bellaire	TX		
Karanikas; John Michael	Houston	TX		
Berchenko; Ilya Emil	Friendswood	TX		
Zhang; Etuan	Houston	TX		
Fowler; Thomas David	Katy	TX		
Ryan; Robert Charles	Houston	TX		

US-CL-CURRENT: 166/245; 166/251.1, 166/257, 166/261, 166/267, 166/272.1, 166/302

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 31. Document ID: US 6742589 B2

L15: Entry 31 of 78

File: USPT

Jun 1, 2004

US-PAT-NO: 6742589

DOCUMENT-IDENTIFIER: US 6742589 B2

TITLE: In situ thermal processing of a coal formation using repeating triangular patterns of heat sources

DATE-ISSUED: June 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Berchenko; Ilya Emil	Friendswood	TX		
Vinegar; Harold J.	Houston	TX		
Wellington; Scott Lee	Belliare	TX		
de Rouffignac; Eric Pierre	Houston	TX		
Karanikas; John Michael	Houston	TX		
Stegemeier; George Leo	Houston	TX		
Fowler; Thomas David	Katy	TX		
Ryan; Robert Charles	Houston	TX		

US-CL-CURRENT: 166/245; 166/257, 166/261, 166/266, 166/267, 166/272.1, 166/272.2, 166/302, 166/308.1

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	INWC	Draw D
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☐ 32. Document ID: US 6742588 B2

L15: Entry 32 of 78

File: USPT

Jun 1, 2004

US-PAT-NO: 6742588

DOCUMENT-IDENTIFIER: US 6742588 B2

TITLE: In situ thermal processing of a hydrocarbon containing formation to produce formation fluids having a relatively low olefin content

DATE-ISSUED: June 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Wellington; Scott Lee	Belliare	TX
Vinegar; Harold J.	Houston	TX
de Rouffignac; Eric Pierre	Houston	TX
Berchenko; Ilya Emil	Friendswood	TX
Stegemeier; George Leo	Houston	TX
Zhang; Etuan	Houston	TX
Shahin, Jr.; Gordon Thomas	Bellaire	TX
Fowler; Thomas David	Katy	TX
Ryan; Robert Charles	Houston	TX

US-CL-CURRENT: 166/245; 166/267, 166/272.1, 166/302, 585/1, 585/2

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	K00C	Draw D
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☐ 33. Document ID: US 6742587 B2

L15: Entry 33 of 78

File: USPT

Jun 1, 2004

US-PAT-NO: 6742587

DOCUMENT-IDENTIFIER: US 6742587 B2

TITLE: In situ thermal processing of a coal formation to form a substantially uniform, relatively high permeable formation

DATE-ISSUED: June 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Vinegar; Harold J.	Houston	TX		
Wellington; Scott Lee	Belliare	TX		
de Rouffignac; Eric Pierre	Houston	TX		
Berchenko; Ilya Emil	Friendswood	TX		

US-CL-CURRENT: 166/245; 166/258, 166/259, 166/261, 166/272.1, 166/272.2, 166/302

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	K00C	Draw D
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☐ 34. Document ID: US 6739394 B2

L15: Entry 34 of 78

File: USPT

May 25, 2004

US-PAT-NO: 6739394

DOCUMENT-IDENTIFIER: US 6739394 B2

TITLE: Production of synthesis gas from a hydrocarbon containing formation

DATE-ISSUED: May 25, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Vinegar; Harold J.	Houston	TX		
Wellington; Scott Lee	Belliare	TX		
de Rouffignac; Eric Pierre	Houston	TX		
Karanikas; John Michael	Houston	TX		
Berchenko; Ilya Emil	Friendswood	TX		
Stegemeier; George Leo	Houston	TX		
Maher; Kevin Albert	Bellaire	TX		
Fowler; Thomas David	Katy	TX		
Ryan; Robert Charles	Houston	TX		
Schoeling; Lanny Gene	Katy	TX		
Van Hardeveld; Robert Martijn	Amsterdam			NL

US-CL-CURRENT: 166/245; 166/251.1, 166/261, 166/266, 166/267, 166/272.1, 166/272.3,
166/302, 166/303

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMK	Draw D
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☐ 35. Document ID: US 6739393 B2

L15: Entry 35 of 78

File: USPT

May 25, 2004

US-PAT-NO: 6739393

DOCUMENT-IDENTIFIER: US 6739393 B2

TITLE: In situ thermal processing of a coal formation and tuning production

DATE-ISSUED: May 25, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Vinegar; Harold J.	Houston	TX		
Wellington; Scott Lee	Belliare	TX		
de Rouffignac; Eric Pierre	Houston	TX		
Karanikas; John Michael	Houston	TX		
Shahin, Jr.; Gordon Thomas	Bellaire	TX		
Berchenko; Ilya Emil	Friendswood	TX		
Stegemeier; George Leo	Houston	TX		
Maher; Kevin Albert	Bellaire	TX		
Zhang; Etuan	Houston	TX		
Fowler; Thomas David	Katy	TX		
Ryan; Robert Charles	Houston	TX		

US-CL-CURRENT: 166/245; 166/250.01, 166/257, 166/261, 166/266, 166/267, 166/272.1,
166/302

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMK	Draw D
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☐ 36. Document ID: US 6736215 B2

L15: Entry 36 of 78

File: USPT

May 18, 2004

US-PAT-NO: 6736215

DOCUMENT-IDENTIFIER: US 6736215 B2

TITLE: In situ thermal processing of a hydrocarbon containing formation, in situ production of synthesis gas, and carbon dioxide sequestration

DATE-ISSUED: May 18, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Maher; Kevin Albert	Bellaire	TX		
Vinegar; Harold J.	Houston	TX		
Wellington; Scott Lee	Bellliare	TX		
de Rouffignac; Eric Pierre	Houston	TX		
Karanikas; John Michael	Houston	TX		
Berchenko; Ilya Emil	Friendswood	TX		
Zhang; Etuan	Houston	TX		
Schoeling; Lanny Gene	Katy	TX		

US-CL-CURRENT: 166/402; 166/256; 166/302, 405/129.1, 405/53, 588/250

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	KWOC	Draw D
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☐ 37. Document ID: US 6732796 B2

L15: Entry 37 of 78

File: USPT

May 11, 2004

US-PAT-NO: 6732796

DOCUMENT-IDENTIFIER: US 6732796 B2

TITLE: In situ production of synthesis gas from a hydrocarbon containing formation, the synthesis gas having a selected H2 to CO ratio

DATE-ISSUED: May 11, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Vinegar; Harold J.	Houston	TX		
Wellington; Scott Lee	Bellliare	TX		
de Rouffignac; Eric Pierre	Houston	TX		
Berchenko; Ilya Emil	Friendswood	TX		
Van Hardeveld; Robert Martijn	Amsterdam			NL

US-CL-CURRENT: 166/259; 166/250.15, 166/261, 166/267, 166/302, 208/108, 208/134, 48/127.3, 518/703, 518/704

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 38. Document ID: US 6732795 B2

L15: Entry 38 of 78

File: USPT

May 11, 2004

US-PAT-NO: 6732795

DOCUMENT-IDENTIFIER: US 6732795 B2

TITLE: In situ thermal processing of a hydrocarbon containing formation to pyrolyze a selected percentage of hydrocarbon material

DATE-ISSUED: May 11, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
de Rouffignac; Eric Pierre	Houston	TX		
Vinegar; Harold J.	Houston	TX		
Wellington; Scott Lee	Belliare	TX		
Berchenko; Ilya Emil	Friendswood	TX		
Stegemeier; George Leo	Houston	TX		
Zhang; Etuan	Houston	TX		
Shahin, Jr.; Gordon Thomas	Bellaire	TX		
Fowler; Thomas David	Katy	TX		
Ryan; Robert Charles	Houston	TX		

US-CL-CURRENT: 166/245; 166/251.1, 166/256, 166/261, 166/267, 166/272.1, 166/302

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 39. Document ID: US 6732794 B2

L15: Entry 39 of 78

File: USPT

May 11, 2004

US-PAT-NO: 6732794

DOCUMENT-IDENTIFIER: US 6732794 B2

TITLE: In situ thermal processing of a hydrocarbon containing formation to produce a mixture with a selected hydrogen content

DATE-ISSUED: May 11, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wellington; Scott Lee	Belliare	TX		
Vinegar; Harold J.	Houston	TX		
de Rouffignac; Eric Pierre	Houston	TX		
Berchenko; Ilya Emil	Friendswood	TX		
Stegemeier; George Leo	Houston	TX		

Zhang; Etuan	Houston	TX
Shahin, Jr.; Gordon Thomas	Bellaire	TX
Fowler; Thomas David	Katy	TX
Ryan; Robert Charles	Houston	TX

US-CL-CURRENT: 166/245; 166/251.1, 166/256, 166/261, 166/272.1

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	K00C	Draw D
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☐ 40. Document ID: US 6729401 B2

L15: Entry 40 of 78

File: USPT

May 4, 2004

US-PAT-NO: 6729401

DOCUMENT-IDENTIFIER: US 6729401 B2

TITLE: In situ thermal processing of a hydrocarbon containing formation and ammonia production

DATE-ISSUED: May 4, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Vinegar; Harold J.	Houston	TX		
Wellington; Scott Lee	Belliaire	TX		
Berchenko; Ilya Emil	Friendswood	TX		
Madgavkar; Ajay Madhav	Katy	TX		
Ward; John Michael	Katy	TX		
Van Hardeveld; Robert Martijn	Amsterdam			NL

US-CL-CURRENT: 166/267; 166/302, 423/359

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	K00C	Draw D
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☐ 71. Document ID: US 6007699 A

L15: Entry 71 of 78

File: USPT

Dec 28, 1999

US-PAT-NO: 6007699

DOCUMENT-IDENTIFIER: US 6007699 A

**** See image for Certificate of Correction ****

TITLE: Autothermal methods and systems for fuels conversion

DATE-ISSUED: December 28, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cole; Jerald A.	Long Beach	CA		

US-CL-CURRENT: 208/134; 208/135, 208/136, 208/137, 208/400, 252/373, 422/198,
422/211, 423/351, 423/418.2, 423/648.1, 423/652, 423/653, 423/654, 423/658.2,
423/659

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 72. Document ID: US 5827496 A

L15: Entry 72 of 78

File: USPT

Oct 27, 1998

US-PAT-NO: 5827496

DOCUMENT-IDENTIFIER: US 5827496 A

TITLE: Methods and systems for heat transfer by unmixed combustion

DATE-ISSUED: October 27, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lyon; Richard K.	Pittstown	NJ		

US-CL-CURRENT: 423/659; 165/104.11, 165/104.12, 423/351, 423/648.1, 423/652, 431/2

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 73. Document ID: US 5322617 A

L15: Entry 73 of 78

File: USPT

Jun 21, 1994

US-PAT-NO: 5322617

DOCUMENT-IDENTIFIER: US 5322617 A

TITLE: Upgrading oil emulsions with carbon monoxide or synthesis gas

DATE-ISSUED: June 21, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
de Bruijn; Theo J. W.	Constance Bay			CA
Patmore; David J.	Nepean			CA
Hogan; Charlene M.	Ottawa			CA

US-CL-CURRENT: 208/108; 208/109, 208/110, 208/112, 208/126, 423/437.2, 423/651

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
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☐ 74. Document ID: US RE33149 E

L15: Entry 74 of 78

File: USPT

Jan 16, 1990

US-PAT-NO: RE33149

DOCUMENT-IDENTIFIER: US RE33149 E

TITLE: Finely particulated colloidal platinum compound and sol for producing the same and method of preparation of fuel cell electrodes and the like employing the same

DATE-ISSUED: January 16, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Petrow; Henry G.	Watertown	MA		
Allen; Robert J.	Saugus	MA		

US-CL-CURRENT: 429/40; 429/218.1, 429/42, 429/44, 502/185

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
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☐ 75. Document ID: US 4059541 A

L15: Entry 75 of 78

File: USPT

Nov 22, 1977

US-PAT-NO: 4059541

DOCUMENT-IDENTIFIER: US 4059541 A

TITLE: Platinum colloid sol and method of forming same

DATE-ISSUED: November 22, 1977

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Petrow; Henry G.	Watertown	MA		
Allen; Robert J.	Saugus	MA		

US-CL-CURRENT: 516/88; 502/339

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	K00C	Draw De
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☐ 76. Document ID: US 4044193 A

L15: Entry 76 of 78

File: USPT

Aug 23, 1977

US-PAT-NO: 4044193

DOCUMENT-IDENTIFIER: US 4044193 A

TITLE: Finely particulated colloidal platinum compound and sol for producing the same, and method of preparation of fuel cell electrodes and the like employing the same

DATE-ISSUED: August 23, 1977

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Petrow; Henry G.	Watertown	MA		
Allen; Robert J.	Saugus	MA		

US-CL-CURRENT: 429/40; 429/42, 429/44

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	K00C	Draw De
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☐ 77. Document ID: US 3992512 A

L15: Entry 77 of 78

File: USPT

Nov 16, 1976

US-PAT-NO: 3992512

DOCUMENT-IDENTIFIER: US 3992512 A

TITLE: Finely particulated colloidal platinum compound and sol for producing the same, and method of preparation

DATE-ISSUED: November 16, 1976

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Petrow; Henry G.	Watertown	MA		
Allen; Robert J.	Saugus	MA		

US-CL-CURRENT: 423/512.1; 423/519.2, 502/223, 516/97

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 78. Document ID: US 3992331 A

L15: Entry 78 of 78

File: USPT

Nov 16, 1976

US-PAT-NO: 3992331

DOCUMENT-IDENTIFIER: US 3992331 A

TITLE: Catalytic platinum metal particles on a substrate and method of preparing the catalyst

DATE-ISSUED: November 16, 1976

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Petrow; Henry G.	Watertown	MA		
Allen; Robert J.	Saugus	MA		

US-CL-CURRENT: 502/339

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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L12 and methane

78

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	US OCR Full-Text Database
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	JPO Abstracts Database
	Derwent World Patents Index
	IBM Technical Disclosure Bulletins

Term:	L12 and methane
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<u>L13</u>	L12 and vibrating	0	<u>L13</u>
<u>L12</u>	L11 and sulfur	89	<u>L12</u>
<u>L11</u>	L10 and emulsion	104	<u>L11</u>
<u>L10</u>	I3 and cracking	104	<u>L10</u>
<u>L9</u>	fuel cells and emulsion and catalytic same cracking	21	<u>L9</u>
<u>L8</u>	temerature same fuel cells	0	<u>L8</u>
<u>L7</u>	high temerature fuel cell	0	<u>L7</u>
<u>L6</u>	L5 and electrochemical	12	<u>L6</u>
<u>L5</u>	L3 and cracking and bonds	82	<u>L5</u>
<u>L4</u>	L3 and cracking same hydrocarbon chain	1	<u>L4</u>
<u>L3</u>	L2 and emulsion	283	<u>L3</u>
<u>L2</u>	L1 and water and hydrocarbon	2868	<u>L2</u>
<u>L1</u>	fuel cell	11872	<u>L1</u>

Freeform Search

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	IBM Technical Disclosure Bulletins
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Set Name Query

side by side

DB=USPT; PLUR=YES; OP=ADJ

Hit Count Set Name

result set

<u>L15</u>	L12 and methane	78	<u>L15</u>
<u>L14</u>	L12 and vibration	1	<u>L14</u>
<u>L13</u>	L12 and vibrating	0	<u>L13</u>
<u>L12</u>	L11 and sulfur	89	<u>L12</u>
<u>L11</u>	L10 and emulsion	104	<u>L11</u>
<u>L10</u>	l3 and cracking	104	<u>L10</u>
<u>L9</u>	fuel cells and emulsion and catalytic same cracking	21	<u>L9</u>
<u>L8</u>	temerature same fuel cells	0	<u>L8</u>
<u>L7</u>	high temerature fuel cell	0	<u>L7</u>
<u>L6</u>	L5 and electrochemical	12	<u>L6</u>
<u>L5</u>	L3 and cracking and bonds	82	<u>L5</u>
<u>L4</u>	L3 and cracking same hydrocarbon chain	1	<u>L4</u>
<u>L3</u>	L2 and emulsion	283	<u>L3</u>
<u>L2</u>	L1 and water and hydrocarbon	2868	<u>L2</u>
<u>L1</u>	fuel cell	11872	<u>L1</u>